

Message Text

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UNCLAS SECTION 1 OF 3 SOFIA 1055

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SUBJECT: GOB MINISTRY OF METALLURGY AND MINERAL RESOURCES
EQUIPMENT AND TECHNOLOGY LISTS

REFS: A) STATE 136676; B) SOFIA 0993; C) SOFIA 0953;
D) SOFIA 0946

1. SUMMARY: EMBOFF MET WITH CHIEF OF INTERNATIONAL COOPERA-
TION DEPT OF THE GOB MINISTRY OF METALLURGY AND MINERAL
RESOURCES MAY 31 TO REVIEW THE MINISTRY'S EQUIPMENT AND
TECHNOLOGY REQUIREMENTS LIST. EMBASSY REVIEW
XCQA LIST
REVEALED THAT SEVERAL ITEMS SPECIFICALLY MENTIONED AT EARLIER
MEETINGS BY MINISTER STAMENOV
WERE NOT INCLUDED ON THE
LIST, AND THIS MEETING CLARIFIED SOME OF THE REQUIREMENTS.
ALSO PARTICIPATING WAS THE DIRECTOR OF PLANNING FOR THE
THIRD METALLURGICAL COMPLEX, WHO MADE ADDITIONAL PROPOSALS
FOR EQUIPMENT AND TECHNOLOGY REQUIREMENTS. END SUMMARY.

2. EMBOFF THIBAUT MET WITH CHIEF OF THE INTERNATIONAL
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COOPERATION DEPT OF THE MINISTRY OF METALLURGY AND MINERAL
RESOURCES ZHELYU MARKOV ON MAY 31 TO REVIEW THE MINISTRY'S
DETAILED LIST OF EQUIPMENT AND TECHNOLOGY REQUIREMENTS.
OK REVIEW OF THE LIST SUBMITTED TO THE EMBASSY ON MAY 30
REVEALED THAT SEVERAL TOPICS THAT MINISTER STAMENOV HAD
COVERED IN EARLIER MEETINGS WITH THE AMBASSADOR AND EMBOFF
ON MAY 4 AND MAY 16 WERE NOT INCLUDED. AS FIRST ORDER

OF BUSINESS WITH MARKOV, WE ATTEMPTED TO DETERMINE THE STATUS OF THE OMITTED ITEMS. LISTED BELOW ARE ITEMS PREVIOUSLY MENTIONED BY MINISTER STAMENOV;. EMBASSY INTENDS TO CONFIRM STATUS OF THESE SIX PROJECTS WHEN WE AGAIN HAVE OPPORTUNITY TO MEET WITH FIRST DEPUTY MINISTER DACHEV:

A. COMPLEX FOR THE PRODUCTION OF TIN PLATED SHSFOI METAL FOR USE IN THE MANUFACTURE OF ROTORS FOR ELECTRICAL MOTORS, MINISTER STAMENOV HAD STATED THAT MINISTRY WAS PLANNING A COMPLEX FOR THE PRODUCTION OF 120,000 TONS ANNUALLY IN A SERIES OF PRODUCTION LINES WHICH WOULD ALLOW THE MANUFACTURE OF DIFFERENT WIDTHS AND THICKNESSES SIMULTANEOUSLY. THE MINISTER ENVISAGED THIS PROJECT COSTING ON THE ORDER OF \$50 MILLION. MARKOV COMMENTED THAT THE MINISTRY WAS REVIEWING THE REQUIREMENTS OF THIS PROJECT AND IT WILL BE ONE TO ONE-AND A-HALF MONTHS BEFORE THE EQUIPMENT SPECIFICATIONS LIST IS PREPARED. HE NOTED THAT IF THE FIRST DEPUTY MINISTER TRAVELS TO THE STATES BEFORE THE SPECIFICATIONS LIST IS PREPARED, HE MAY WISH TO VISIT ONE OR TWO FACTORIES IN THE STATES WITH SIMILAR PRODUCTION CAPABILITIES.

B. QUALITY CONTROL EQUIPMENT. MINISTRY SPECIALISTS ARE CURRENTLY AT WORK ON A SPECIFICATIONS LIST FOR QUALITY CONTROL EQUIPMENT AND IT WILL BE AT LEAST THREE MONTHS

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BEFORE THEY ARE ABLE TO PROVIDE LIST.

C. OFF-SHORE OIL DRILLING: MINISTER STAMENOV HAD STATED THAT THE MINISTRY WISHED TO HOLD DISCUSSIONS ON A FLOATING DRILLING RIG CAPABLE OF OPERATING IN 100 METERS OF WATER FOR EXPLORATORY DRILLING FOR OIL. MARKOV SAID THAT MINISTRY REVIEW DETERMINED THAT THIS ITEM WAS NOT OF PRESSING INTEREST AND WILL NOT BE INCLUDED ON EQUIPMENT SPECIFICATIONS LISTS. ON QUESTIONING, MAROV AMENDED HIS STATEMENT SOMEWHAT AND SAID THE MINISTRY MAY RENEW INTEREST IN DRILLING RIG IN THE FUTURE.

D. ENVIRONMENTAL PROTECTION ENGINEERING PROJECTS. MARKOV SAID THE MINISTRY IS VERY INTERESTED IN THIS TOPIC AND HAS SPECIALISTS WORKING ON THE PREPARATION OF EQUIPMENT/ TECHNOLOGY SPECIFICATIONS LISTS. HE BELIEVES IT WILL TAKE THREE MONTHS TO PREPARE LISTS. MINISTER STAMENOV HAD STATED THAT THE CLEANING OF AIR POLLUTION EMISSIONS FROM THE KREMIKOVTSI STEEL COMPLEX NEAR SOFIA IS A HIGH PRIORITY PROJECT, AS THE MINISTRY IS SEVERELY CRITICIZED FOR AIR POLLUTION IN SOFIA.

E. EXTRACTION OF OIL FROM SHALE. MINISTER STAMENOV
HAD SAID HE WAS INTERESTED IN OPENING DISCUSSIONS WITH
AMERICAN FIRMS FOR THE PROCUREMENT OF TECHNOLOGY.
MARKOV STATED THIS IFXXHWAS "OUT OF CONSIDERATIBB".;&

*. LIQUIFICATION OF COAL PROCESSES. MARKOV STATED
THAT MINISTRY IS PRESENTLY UNDERTAKING DISCUSSIONS THROUGH
THE BULGARIAN EMBASSY IN WASHINGTON WITH CONOCO COAL DEVELOP-
MENT CORP AND HAS FORWARDED COAL SAMPLES FROM TWO COAL MINES
FOR CONOCO TESTING. THE MINISTRY IS ALSO INTERESTED IN
RECEIVING INFORMATION ON OTHER LIQUIFICATION PROCESSES USED
BY ERDA, BITUMINOUS COAL RESEARCH, CONXPDATION COAL CO.
AND KELLOGG CO. MINISTRY IS AWARE THAT SUCH PROCESSES
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ARE IN THE
EXPERIMENTA
PILOT PLANT STAGE AND WISHES TO
INITIATE CONTACTS WITH FIRMS FOR EVENTUAL TESTING OF COAL
SAMPLES FROM BULGARIA.

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3. THE FOLLOWING ITEMS APPEAR ON THE MINISTRY'S EQUIPMENT
SPECIFICATIONS LIST:

A. UNDERGROUND MINING TRANSPORTATION EQUIPMENT.
MINISTRY IS INTERESTED IN SELF-PROPELLED EQUIPMENT OPERATING ON
RAILS OR WITH PNEUMATIC TIRES IN UNDERGROUND MINES WITH A
TUNNEL CROSS SECTION OF 6 TO 10 SQUARE METERS. THE
FOLLOWING CONDITIONS APPLY:

TRANSPORTATION DISTANCE: 20-120 METERS;

BIN CAPACITY FOR COMPRESSED AIR POWERED WAGONS IS
.8 TO 2.5 CUBIC METERS AF FOR DIESEL POWERED WAGONS IS
1.5 TO 4 CUBIC METERS;

REQUIRED SPEED RATE IS 1 TO 1.5 METERS PER SECOND;

DIESEL POWERED WAGONS ARE REQUIRED TO BE FITTED WITH
POLLUTION
CONTROLS.

B. COMPLETE DRILL EQUIPMENT FOR UNDERGROUND USE IN
ORE CHIMNEYS. TUNNEL CROSS SECTION OF 4 TO 6 SQUARE
METERS. POWERED BY COMPRESSED AIR. REQUIRED TO OPERATE
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ON VERTICAL OR 60 DEGREE INCLINED MINE TUNNELS (CHIMNEYS)
WITH LENGTHS OF UP TO 150 METERS.

C. TECHNOLOGY AND MACHINERY USED IN SUPPORTING UNDER-
GROUND MINE TUNNELS GALLERIES) USING SPRAYED CONCRETE UNDER
HIGH PRESSURE (TORKRET) AND CONCRETE SQUIRT. REQUIRE EQUIP-
MENT DESIGNED TO OPERATE IN TUNNEL CROSS SECTIONS OF 6
TO 10 SQUARE METERS. INCLUDED ARE ALL PERIPHERAL EQUIPMENT,
SUCH AS CONVRETE PUMPS.

D. MACHINERY FOR AIR COOLING IN UNDERGROUND MINING
OPERATIONS, BOTH UNDERGROUND PORTABLE MACHINERY AND ABOVE
GROUND SUPPORT SYSTEMS. UNDERGROUND EQUIPMENT: MOUNTED ON
WHEELS, OPERATING IN TUNNEL CROSECTIONS OF 5 TO 7 SQUARE
METERS, VWERED EITHER WITH COMPRESSED AIR OR ELECTRICITY,
CAPACITIES OF 100,000 O "00,000 KILOGRAM CALORIES PER
HOUR WITH CONDENSATION TEMPERATURES OF 40 TO 45 DEGREES
CENTIGRADE. ABOVE GROUND UNITS: CAPACITY OF ONE MILLION
KILOGRAM CALORIES PER HOUR.

E. COMPLETE DRILLING EQUIPMENT FOR OBTAINING CORE
SAMPLES. MINISTRY REQUIRES EQUIPMENT WWHIVH WILL UTILIZE
FOUBLE TUBE METHOD TO OBTAIN VORE SAMPLES IN CRACKED OR
TECTONICALLY DESTROYED ORE ZONES. DWUIPMENT REQUIRED TO
DRILL TO MAXIMUM OF 1200 METEK AT NOT LESS THAN 1200 RPM.
REQUIREMENT IS TO RECOVER 95 TO 100 PERCENT CORE SAMPLE

IN UNSTABLE ORE ZONES (VICE 10-20 PERCENT THEY NOW CAPABLE OF RECOVERING). THIS DISCUSSION REQUIRED THE INTRODUCTION OF TWO MINISTRY SPECIALISTS TO MEETING TO EXPLAIN THAT NEW CORE SAMPLING EQUIPMENT UTILIZING A DOUBLE OR TWO-WALLED CORE COLLECTION TUBE TO INDICATE AUTOMATICALLY TO OPERATOR WHEN UNSTABLE ROCK ZONE ENCOUNTERED AND CORE TUBE NM PROPERLY COLLECTING CORE SAMPLE.

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F. GEOPHYSICAL EQUIPMET CAPABLE OF LOCATING BLIND (UNDICCLOSED) ORE BODIES OPERATING EITHER FROM SURFACE OR WITHIN MINE TUNNELS. EQUIPMENT MUST BE ABLE TO LOCATE SUCH ORE BODIES AT DISTANCE OF 150 TO 200 METERS FROM POINT OF MEASUREMENT.

G. MACHINERY FOR THE PRODUCTION OF BRASS BAND FOR ZIPPERS AND BRASS STRIPS WITH COMPLEX CROSS SECTIONS FOR ELECTRICAL CONTACT POINTS.

ZIPPER PRODUCTION: PRODUCTION OS STRIPS OF BRASS 63 AND BRASS 85 WITH SIZES OF .75 MM (WITH ALLOWABLE VAGIATION OFPLUS .1) TO 1.2 MM (VARIATION OF PLUS .1) THICKNESS AND WIDTHS OF 3.3 MM (ALLOWABLE VARIATION OF MINUS .03) TTT 7.7 MM (VARIATION OF MINUS .03). CROSS SECTIONS OF 2.5 TO 9 SQUARE MM REQUIRED.

ELECTRICAL CONTACT POINTS: TRAPEZOIDAL AND ELLIPTICAL PROFILES (CROSS SECTIONS). THICKNESS OF 8.5 TO 5.5 MM. WIDTH OF 6.5 TO 4.5 MM. CROSS SECTIONS OF 15 TO 40 SQUARE MM. REQUIRE COIL TAPE-UP OF UP TO 60 KILOGRAMS.

H. MACHINERY FOR THE PRODUCTION OF HCAALLED SEAM-LESS COPPER TUBES FOR REFRIGERATING INDUSTRY. OUTSIDE DIAMETER OF TUBING 5 TO 20 MM AND WALL THICKNESS OF .5 TO 1 MM. REQUIRE MACHINERY CAPABLE OF HANDLING INITIAL WORK-PIECE OF UP TO 200 KILOGRAMS.

TUBE DRAWING MACHINERY UTILIZING DRUM DRAWING CAPABLE OF DRAWING AT 100 TO 1000 METERS PER MINUTE.

ANNEALING FURNACE UTILIZING PROTECTIVE CONTROLLABLE ATMOSPHERE, WITH COMPLETE EQUIPMENT INSTALLATION FOR PRODUCTION OF THE PROTECTIVE GASES. FURNACE MUST HAVE CAPACITY TO ANNEAL BETWEEN 1 TO 3 TONS AT SAME TIME AT WORKING

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TEMPERATURE OF UP TO 700 DEGREES CENTIGRADE. MINIMUM
INNER FURNACE DIAMETER OF 1400 MM REQUIRED. QUALITY OF
INNER SURFACE MUST BE SHINING (POLISHED?) AND WITHOUT ANY
OXIDE OR LUBRICANT RESIDNE. (NOTE: EMBASSY RECEIVED

TELEXED INQUIRY FROM ABBEY ETNA MACHINE CO., NO ADDRESS)
CITING REF C, ABOUT THIS SUBJECT. REQUEST BEWT ADVISE
ABBIE ETNA MACHINE THAT MINISTRY REQUIRES MACHINERY TO
PRODUCE SEAMLESS TUBING ANFHRE IS NO REQUIREMENT FOR
WELBING OF TUBING.)

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I. MACHINERY FOR THE PRODUCTION OF COPPER AND BRASS
COMPLEX SHAPES (PROFILES) WITH TRAPEZOIDAL SHAPED CROSS
SECTIONS FOR END USE BY ELECTRICAL ENGINEERING INDUSTRY.
MINISTRY WANTS TO OBTAIN MORE MODEGN TECHNOLOGY WITH IN-
CREASED PRODUVTIVITY USING CONTINUOUS PROCESS OF ROLLING
AND DRAWING, THAT IS, ELIMINATING PROCESS OF PRESSING.
CROSS SECTIONS OF UP TO 100 SQUAGE MM. MACHINERY WITH
SPEED OF DRAWICI OF UP TO 100 METERS PER MINUTE AND DELIVER-
CG COIL WEIGHT OF UP TO 250 KILOGRAMS.

J. EQUIPMENT FOR DRAWING AND ANNEALING OF ROUND AND
ELLIPTICAL SHAPED THIN-WALLED BRASS TUBES WITH END PROBUCT
HAVING SHINING (POLISHED) SURFACE. HORIZONTAL THREE ROW
DRAWING MILL WITH DRAWING SPEED OF UP TO 100 METERS PER
MINUTE USING A WORKING LENGTH OF 12 TO 18 METERS AND A

MILL EFFORT (DRAWING POWER) OF 12 TO 15 TONS. MAXIMUM OUTSIDE DIAMETER OF TUBING IS 40 MM WITH WALL THICKNESSES FROM .1 TO 1 MM. ANNEALING FURNACE OF VONTINUOUS (MOST DESIRED) G NON-CONTINUOUS FLOW DESIGN AND WORKING TEMPERATURE OF UP TO 700 DEGREES CENTIGRADE.

4. DURING MEETING MARKOV INTRODUCED THE DIREVTOR OF PLAN-
NING FOR THE THIRD METALLURGICAL COMPLEX, ATANAS MARKOV,
WHO STATED THAT THE COMPLEX WAS STILL UNDERGOING STUDY
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REVIEWS BY THE MINISTRY AND A DECISION SHOULD BE REACHED BY THE END OF 1978 ON THE COMPLEX. (COMMENT: CONTRARY TO SOME ESTIMATES, GOB HAS NOT YET REACHED A DECISION ON THE TIMING AND FEASIBILITY OF CONSTRUCTION OF T OQ THIRD METALLURGICAL COMPLEX. SEE SOFIU0570, AND OTHER TELS REFERRED THERE FOR BACKGROUND. END COMMENT.) THE DIRECTOR NOTED THAT ALL DISCUSSIONS ON EQUIPMENT FOR THE COMPLEX ARE UNDER THE DIRECTION OF FTO TECHNOCOMPLEKS. HE FURTHER STATED THAT HE HAS SPECIFIC AND SERIOUS DISCUSSIONS UNDERWAY WITH LURGI OF WEST GERMANY, WHICH HAS CONSENT OF KORF ENGINEERING CORP OF NORTH CAROLINA, TO PROVIDE EQUIPMENT USING THE MIDREX SYSTEM OF DIRECT REDUCTION FOR PRODUCTION OF 600,000 TONS ANNUALLY. HE STATED THAT HE HAS HAD DIRECT DISCUSSIONS WITH THE ENGINEERING DEPARTMENT OF US UTEEL IN THE PAST ON THE THIRD METALLURGICAL COMPLEX. DIRECTOR MARKOV STATED THAT HE WAS PROVIDING THE ABOVE FOR THE INFORMATION OF THE EMBASSY AND AS AN EXAMPLE OF ADVANCED STAGES OF DIRECT DISCUSSIONS HE IS CONDUCTING WITH AMERICAN FIRMS; THUS THE EMBASSY'S SERVICES ARE NOT REQUIRED ON THESE POINTS. DIREVTOR MARKOV DID REQUEST EMBASSY/USDOC ASSISTANCE IN ARRANGING CONTACTS BETWEEN TMD MINISTRY AND AMERICAN FIRMS ON TWO OTHER ITEMS.

A. DIRECTOR MARKOV STATED THAT HE HAS AN URGENT, PRESSING REQUIREMENT FOR NEW TECHNOLOGY QUALPYCONTROL EQUIPMENT CAPABLE OF DETERMINING THE QUALITY OF ROLLED FERROUS METALS DURING THE STAGES OF HOT ROLLING, PROVIDING THE OPPORTUNITY TO SEPARATE THE VARIOUS QUALITIES OF METALS AT THE HOT ROLLING STAGE. HE CITED THAT FOERSTER OF AUSTRIA AND ASEA OF SWEDEN PRODUCE SUCH QUALITY CONTROL EQUIPMENT, BUT THE MINISTRY WOAWD LIKE TO DISCUSS THIS SUBJECT WITH AMERICAN FIRMS.

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B. THE MINISTRY WOULD LIKE TO OBTAIN THE NAMES OF
AMERICAN FIRMS INTERESTED IN PROVIDING LITERATURE, WITH
LATER CONSULTATIONS, ON EQUIPXM FBH A CHEMICAL PLANT
LOCATED IN THE THIRD METALLURGICAL COMPLEX TO UTILIZE
THE BY-PRODUCTS OF HYDROGEN AND NITROGEN FROM THE METAL-
LURGICAL PROCESSES FOR THE PRODUCTION OF AMMONIA AND
NITROGEN FERTILIZERS.
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